

# CFAC Review



Conventional Facilities Value Management

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# Value Management Approach

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- Incorporate VE discussion in design reviews
  - Presentations to all divisions to confirm functional requirements
  - Discussion of cost and performance trade-offs
  - Review by PE ECS Engineers
- Numerous items incorporated during ACD and early Title
- Recently additional items incorporated as part of baseline development
- Additional VE items to be identified as part of formal VE review with VE expert and combined A/E, NSLS II, DOE & CM team
  - Some may be incorporated in T-I
  - Others may be parked for disposition during Title II

# Recent VE Items

CF Scope & Cost Reduction Items		Direct FY07\$	Decision date*
1	Shell LOB 4	\$3,550,000	Unlimited
2	Only pursue LEED Silver instead of Gold in Ops and LOB's	\$1,200,000	February-09
3	Reduced Ring Bldg width by 3'	\$532,000	November-07
4	Reduced LINAC Bldg length	\$825,000	November-07
5	Move process cooling tower to infield	\$101,000	November-07
6	Use shorter utility routing	\$35,000	November-07
7	Ops Bldg Entry Lobby 2 story instead of 3	\$180,000	November-07
8	Reduce front end area height by 40 cm	\$429,000	November-07
9	Reduce thickness for Exp Hall and Tunnel floor slab	\$1,029,000	November-07
10	Eliminate return duct in storage ring	\$43,000	November-07
11	Distribute Beamline utilities to half of ring	\$970,000	Unlimited
12	Remove ratchet wall doors for 1/2 of Ring	\$1,200,000	Unlimited
13	Remove allowance for accoustic treaments (keep perf. metal deck)	\$1,000,000	Unlimited
14	Assume BNL removes all structures from site	\$192,000	November-07
15	Remove trees & shrubs from landscaping	\$408,000	Unlimited
Total Reduction		\$11,694,000	

\*Items that are unlimited can be added back in the facility at any time. Items with a date either require a decision because of collateral design impacts or must be decided at time of construction contract award.

# Formal Value Engineering Review

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- VE study will be led by trained/certified VE Expert provided by Design Phase CM
- Review team will consist of:
  - NSLS II CF staff and interface managers for ASD & XFD
  - Design A/E architects and engineers
  - DOE observers
  - CM estimators, construction experts
  - PE engineers
- Will produce brainstorm list of VE opportunities
- Evaluate selected opportunities, provide data & recommendations
- NSLS II review and selection of recommended opportunities
- Produce final VE report